

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/S30,187  
Source: PCT  
Date Processed by STIC: 4-12-05

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 04/12/2005

PATENT APPLICATION: US/10/530,187

TIME: 08:49:26

Input Set : A:\SEQ LISTING U.S. -VAI-14.txt

Output Set: N:\CRF4\04122005\J530187.raw

3 <110> APPLICANT: THE, Bin Tean  
 4 TAKAHASHI, Masayuki  
 6 <120> TITLE OF INVENTION: Molecular Subclassification of Kidney Tumors and the  
 Discovery of  
 7 New Diagnostic Markers  
 9 <130> FILE REFERENCE: 28927-0014  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/530,187  
 12 <141> CURRENT FILING DATE: 2005-04-04  
 14 <150> PRIOR APPLICATION NUMBER: PCT/US2003/031476  
 15 <151> PRIOR FILING DATE: 2003-10-06  
 17 <150> PRIOR APPLICATION NUMBER: US 60/415,775  
 18 <151> PRIOR FILING DATE: 2002-10-04  
 20 <160> NUMBER OF SEQ ID NOS: 296  
 22 <170> SOFTWARE: PatentIn version 3.2  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 343  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: homo sapiens  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: misc\_feature  
 31 <222> LOCATION: (12)..(12)  
 32 <223> OTHER INFORMATION: n is a, c, g, or t  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: misc\_feature  
 36 <222> LOCATION: (56)..(56)  
 37 <223> OTHER INFORMATION: n is a, c, g, or t  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: misc\_feature  
 41 <222> LOCATION: (89)..(89)  
 42 <223> OTHER INFORMATION: n is a, c, g, or t  
 44 <220> FEATURE:  
 45 <221> NAME/KEY: misc\_feature  
 46 <222> LOCATION: (91)..(92)  
 47 <223> OTHER INFORMATION: n is a, c, g, or t  
 49 <220> FEATURE:  
 50 <221> NAME/KEY: misc\_feature  
 51 <222> LOCATION: (196)..(197)  
 52 <223> OTHER INFORMATION: n is a, c, g, or t  
 54 <220> FEATURE:  
 55 <221> NAME/KEY: misc\_feature  
 56 <222> LOCATION: (239)..(239)  
 57 <223> OTHER INFORMATION: n is a, c, g, or t  
 59 <220> FEATURE:  
 60 <221> NAME/KEY: misc\_feature

(ps: 6-7)

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61 <222> LOCATION: (260)..(260)
62 <223> OTHER INFORMATION: n is a, c, g, or t
64 <220> FEATURE:
65 <221> NAME/KEY: misc_feature
66 <222> LOCATION: (276)..(276)
67 <223> OTHER INFORMATION: n is a, c, g, or t
69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <222> LOCATION: (281)..(281)
72 <223> OTHER INFORMATION: n is a, c, g, or t
74 <220> FEATURE:
75 <221> NAME/KEY: misc_feature
76 <222> LOCATION: (314)..(314)
77 <223> OTHER INFORMATION: n is a, c, g, or t
79 <220> FEATURE:
80 <221> NAME/KEY: misc_feature
81 <222> LOCATION: (331)..(331)
82 <223> OTHER INFORMATION: n is a, c, g, or t
84 <400> SEQUENCE: 1
W--> 85 tttttttttt gntgaggttg cttttattcc aagaactctg tgagctccac ccaganacca      60
87 ttggcgcttg cttgtgtccc caggggccnt nnacacaaca gcaccagcac catgagggcg      120
89 ctctcgaccc acacaagccc tgggccccgt cagtcaatgt gactgagtc gccattgagg      180
91 ccagtctggc tggccnnaag tggtcctct gagtcccca ctccctggcc agcaaggant      240
93 gaagctccat gccccttggn ccacgcctct agagtntgag natatcctgc agcctcgatc      300
95 tcaggaggca acgnatgcag cccccctgca ntcaggaaaagg ggg      343
98 <210> SEQ ID NO: 2
99 <211> LENGTH: 322
100 <212> TYPE: DNA
101 <213> ORGANISM: homo sapiens
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: (232)..(232)
106 <223> OTHER INFORMATION: n is a, c, g, or t
108 <220> FEATURE:
109 <221> NAME/KEY: misc_feature
110 <222> LOCATION: (234)..(234)
111 <223> OTHER INFORMATION: n is a, c, g, or t
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (236)..(236)
116 <223> OTHER INFORMATION: n is a, c, g, or t
118 <220> FEATURE:
119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: (248)..(248)
121 <223> OTHER INFORMATION: n is a, c, g, or t
123 <220> FEATURE:
124 <221> NAME/KEY: misc_feature
125 <222> LOCATION: (274)..(274)
126 <223> OTHER INFORMATION: n is a, c, g, or t

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128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (282)..(282)
131 <223> OTHER INFORMATION: n is a, c, g, or t
133 <400> SEQUENCE: 2
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136 agccccggcc ccacggctac ttcgcgcccc aggaggtgtg ggcagggccg ccgcggaggg      120
138 aggctgcagg tgtgtcagga ggcacctggc cggaggtcac cccctccttc tggaccctca      180
W--> 140 gcagagttga ggcgcctgca ccccagggga gccaggctgc tatctaaagg antntnaggt      240
142 gcggtcantt ccgccactgg ccggtgtcgg ggtntgggaa ancctgagac cctaagctct      300
144 cctggctgct ctctcaaacc ct                                          322
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 465
149 <212> TYPE: DNA
150 <213> ORGANISM: homo sapiens
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (9)..(9)
155 <223> OTHER INFORMATION: n is a, c, g, or t
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (274)..(274)
160 <223> OTHER INFORMATION: n is a, c, g, or t
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (304)..(304)
165 <223> OTHER INFORMATION: n is a, c, g, or t
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: (348)..(348)
170 <223> OTHER INFORMATION: n is a, c, g, or t
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (422)..(422)
175 <223> OTHER INFORMATION: n is a, c, g, or t
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (457)..(457)
180 <223> OTHER INFORMATION: n is a, c, g, or t
182 <400> SEQUENCE: 3
W--> 183 agtttccant tttactgaat ttgtaattcc aagaaaattg ttggctagga ggagattgga      60
185 aaactgaatt cacatcagat cctaatgaga agaatcaat tttaactaag tgggtgaata      120
187 ggagttgtat tatttaatta gcatataatt tgaaagagtt cattagcttc acaacaggca      180
189 caatcaacac ttaggtaaa gacttaattt ttgcaaaact ttagaataact ggtccttgcac      240
191 gttcttgacc tctatggctg gtttattaaa accnggaaaa tcttccttgg attccttctaa      300
193 aggnntttctc atccatgggg agggcttcct tggggctgcc agggctgnta gggaaacttc      360
195 cttccactgt gggggcaggg ttactggatt ctgggttttc aggggccttc agccagaggg      420
197 gnaagctggg gaaataaggg ctaggaggtc caagctnttc cccgg                                          465
200 <210> SEQ ID NO: 4

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201 <211> LENGTH: 411
202 <212> TYPE: DNA
203 <213> ORGANISM: homo sapiens
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: (355)..(355)
208 <223> OTHER INFORMATION: n is a, c, g, or t
210 <220> FEATURE:
211 <221> NAME/KEY: misc_feature
212 <222> LOCATION: (395)..(395)
213 <223> OTHER INFORMATION: n is a, c, g, or t
215 <400> SEQUENCE: 4
216 ttaagaggaa gaacatgtag ctcaactttat tttcccaaaa gatgtcttga aattttaatc      60
218 agttcagtc tccctatctt tcttcttaca tattaatcct atagattagt gactcttgta      120
220 taagacaaga aaaactaatg tgcttggttg atatcagcac agatcagtc ctaagcagaa      180
222 gtgaaaatat gggaaaatga gttggaaaagg aaaatggtat agaaaatagt aaagacaaac      240
224 catgggacca ctttttctca gtgagagata cattgtcggg gccagagtgc tggagagctg      300
W--> 226 ggcagagagg aacaaaatgt ctgacagcag gagccggagc ccagggagga aaccnagatg      360
228 gaaagggtc tgctcagact gactccatgt gggcncctta tgggataaag g              411
231 <210> SEQ ID NO: 5
232 <211> LENGTH: 434
233 <212> TYPE: DNA
234 <213> ORGANISM: homo sapiens
236 <400> SEQUENCE: 5
237 tgctgcaaaa agcctttaat atgccctggt cccaggctgt gttcatgaaa gcggacacag      60
239 cagtgttcc agcttcatgg ttcccagggt caggttcctc ccagcggagg tgggagggca      120
241 gccctcacac ctggcacccc tgagtgcata ctcttgagg aagtcgttga gctgggcaca      180
243 ggctgtcgc tggcggtgtc tccggcacag gcgttcagag gccatctcct cgatccagct      240
245 attcgagtcc agcagggtact ggggggtgtc tcgagggtcat aggtggcccc atctagaccc      300
247 atgatcaaat attctttccc aggttccaag cgaaggcgtc aggaggctcg aaccagggaag      360
249 ttgcgcatct gattagcagc ggcttgaca tccttggtga agtgcaggac ttgggtgatc      420
251 ttggtctcaa agag              434
254 <210> SEQ ID NO: 6
255 <211> LENGTH: 373
256 <212> TYPE: DNA
257 <213> ORGANISM: homo sapiens
259 <400> SEQUENCE: 6
260 tttggtgttt tgaagataaa tgtcattagt ctatgataat agcatcatag gacaattagc      60
262 cattttagac ttgaccatat tttctctttt tagcatatag ccatcttgat atttaggtgg      120
264 gagactactc caatggagca acagtttcat tttacatgat tggatttaga aattttacaaa      180
266 ttttaaactc ataagaattc taaataattt gaaaatggaa acatttgacc cacagtctag      240
268 cagcataaat acatttataa aatacttcat tgttgatctt aggtcattga tttaaaacag      300
270 aatttggtga ctatgggcag gtggaggggg ccagtgagga aggtataaaa gagaaatctt      360
272 tatgaattgt gtt              373
275 <210> SEQ ID NO: 7
276 <211> LENGTH: 493
277 <212> TYPE: DNA
278 <213> ORGANISM: homo sapiens
280 <220> FEATURE:

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281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (245)..(245)
283 <223> OTHER INFORMATION: n is a, c, g, or t
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: (473)..(473)
288 <223> OTHER INFORMATION: n is a, c, g, or t
290 <400> SEQUENCE: 7
291 ggggttcacac acaaacattc aggaagcagc actggtgtag acccactttg atcccgtaaa      60
293 gtgtcctgag tgccctctt cecatggcca cttcttttgc caggttcttt ggttccctgc      120
295 ttgggataca ccagtcacac gcctcagagc tcatctgata atgtttgaag gctgacttgt      180
297 taaaaactgg aagtttttcc taatagacct cagaagacaa agccctttta agtagaatga      240
W--> 299 tagcnatctg gttcccataa tccctgatta aaggagtaag aagattcagg atctcccttg      300
301 gaaaagggtac ttttggcata ccaggaccga ggaaattttg gccaaaggccg gtaaaaccca      360
303 aaaacccagg cccaaaaagg gaaggcaatt tcccggggga atttaatccc atccaccagg      420
305 ggccgtttgg ggttgagtt gggaagttaa tggataaac taaaagaagg ccnggtcaat      480
307 taaattctca ggg                                           493
310 <210> SEQ ID NO: 8
311 <211> LENGTH: 475
312 <212> TYPE: DNA
313 <213> ORGANISM: homo sapiens
315 <400> SEQUENCE: 8
316 ctagttcttc ctacgtgaga gggagggtact gttctaccaa cagctctgat ttggtgagtg      60
318 cattttctac gccactgctc acgagctgca tcatccgact ccccaagact gtgttaatgc      120
320 tgccactgac cacagacttg gtcttctcca cactgccagt cactgcccct ttggtcttgt      180
322 ccataccccc tgtgatcgtg ctggccacag aatccttggc ccagtcaca gtagtcgtca      240
324 cagcatcttt tgccccagtc acagcgctt tggagttggc aacaatctga gttgatggct      300
326 gattcagaat aggcagtctc tcctcaatcc tgtctagccc cttacaggca taggtattgg      360
328 caactgcaat ttgcggctct agcttctgga tgatgggcag agcactggtc atggccacgg      420
330 aagtgatggt cttcaaagg ttctctgcca tctcacacac agacttcagg taggg      475
333 <210> SEQ ID NO: 9
334 <211> LENGTH: 267
335 <212> TYPE: DNA
336 <213> ORGANISM: homo sapiens
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (240)..(240)
341 <223> OTHER INFORMATION: n is a, c, g, or t
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (245)..(245)
346 <223> OTHER INFORMATION: n is a, c, g, or t
348 <400> SEQUENCE: 9
349 agagttctta tcgctgttta ttgaaacctc ccatcaaaga aaagtgtggg aggcaagaag      60
351 gggaggactt ctcatcttgt taagactcag tcttgtagg actgagccag gggatatcag      120
353 gggacctcag ggggaagagga cggggacagt gggggaagg ggccagtggg gaagggctag      180
W--> 355 acagaagaat ggcagggtg ggttgacagg agaacaaggg cagggatggc tgaacctttn      240
357 aactngccag ggctgggcag gaggctc                                           267
360 <210> SEQ ID NO: 10

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Input Set : A:\SEQ LISTING U.S. -VAI-14.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 12, 56, 89, 91, 92, 196, 197, 239, 260, 276, 281, 314, 331  
 Seq#:2; N Pos. 22, 234, 236, 248, 274, 282  
 Seq#:3; N Pos. 9, 274, 304, 348, 422, 457  
 Seq#:4; N Pos. 356, 395  
 Seq#:7; N Pos. 249, 413  
 Seq#:9; N Pos. 240, 245  
 Seq#:10; N Pos. 27, 33, 34, 56, 58, 60, 62, 63, 64, 65, 66, 203, 297, 301, 319, 359, 395  
 Seq#:11; N Pos. 27, 39, 234, 387, 428, 438, 450  
 Seq#:12; N Pos. 200, 231, 239, 244, 268, 274, 281, 288  
 Seq#:13; N Pos. 4, 34, 84, 87, 226  
 Seq#:14; N Pos. 134  
 Seq#:16; N Pos. 380, 403  
 Seq#:17; N Pos. 485, 527, 536, 559  
 Seq#:20; N Pos. 376, 450, 511  
 Seq#:21; N Pos. 15, 18, 95, 256, 271, 298, 322, 356, 375  
 Seq#:23; N Pos. 114, 123, 154, 166, 204, 207, 270, 310, 315, 346, 420  
 Seq#:27; N Pos. 208, 409  
 Seq#:28; N Pos. 278, 367, 377  
 Seq#:29; N Pos. 34, 35, 36, 37, 139, 143, 245, 348, 363  
 Seq#:30; N Pos. 211, 217, 249, 262  
 Seq#:31; N Pos. 461, 515, 523  
 Seq#:32; N Pos. 157, 264, 302, 307, 318  
 Seq#:33; N Pos. 249, 294  
 Seq#:38; N Pos. 393, 441  
 Seq#:39; N Pos. 165, 263, 273, 381  
 Seq#:40; N Pos. 171, 313, 321, 354, 359  
 Seq#:45; N Pos. 408  
 Seq#:49; N Pos. 5, 9, 97, 142, 253, 272, 287, 309, 392, 423  
 Seq#:53; N Pos. 311  
 Seq#:57; N Pos. 15, 185, 225, 242  
 Seq#:58; N Pos. 269, 279, 359, 365  
 Seq#:61; N Pos. 162, 180, 245, 284, 305, 319, 352, 371, 413, 422  
 Seq#:62; N Pos. 48, 217, 240, 249, 266, 274, 277  
 Seq#:65; N Pos. 167  
 Seq#:66; N Pos. 295  
 Seq#:67; N Pos. 208  
 Seq#:68; N Pos. 3, 10, 39, 416, 424  
 Seq#:69; N Pos. 399, 412, 419, 435, 452  
 Seq#:71; N Pos. 6, 8, 75, 139, 202, 282  
 Seq#:73; N Pos. 81, 85, 152  
 Seq#:74; N Pos. 433  
 Seq#:75; N Pos. 232, 252, 259, 273, 299  
 Seq#:77; N Pos. 332  
 Seq#:78; N Pos. 193, 230, 345, 396, 413, 433, 450, 458

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Seq#:79; N Pos. 3,5,160,336  
Seq#:81; N Pos. 302,420,466,485,494,506  
Seq#:82; N Pos. 1,2,3,4,187,205,270,317,322,360  
Seq#:84; N Pos. 395  
Seq#:85; N Pos. 250,423  
Seq#:86; N Pos. 355  
Seq#:92; N Pos. 147,309,349,365,372,380



## VERIFICATION SUMMARY

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Input Set : A:\SEQ LISTING U.S. -VAI-14.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:180  
M:341 Repeated in SeqNo=2  
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
M:341 Repeated in SeqNo=3  
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:300  
M:341 Repeated in SeqNo=4  
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240  
M:341 Repeated in SeqNo=7  
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:180  
M:341 Repeated in SeqNo=9  
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
M:341 Repeated in SeqNo=10  
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
M:341 Repeated in SeqNo=11  
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:180  
M:341 Repeated in SeqNo=12  
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
M:341 Repeated in SeqNo=13  
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:120  
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:360  
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480  
M:341 Repeated in SeqNo=17  
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:360  
M:341 Repeated in SeqNo=20  
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
M:341 Repeated in SeqNo=21  
L:953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60  
M:341 Repeated in SeqNo=23  
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:180  
M:341 Repeated in SeqNo=27  
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:240  
M:341 Repeated in SeqNo=28  
L:1140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
M:341 Repeated in SeqNo=29  
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:180  
M:341 Repeated in SeqNo=30  
L:1227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:420  
M:341 Repeated in SeqNo=31  
L:1267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:120  
M:341 Repeated in SeqNo=32  
L:1300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:240  
L:1415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:360  
M:341 Repeated in SeqNo=38  
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:120  
M:341 Repeated in SeqNo=39

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L:1496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:120

M:341 Repeated in SeqNo=40

L:1616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:360